

STA-07 EXTRACT AIR RELATED SUPPLY AIR CONTROL, ERSC

The supply air temperature is controlled in relation to the extract air temperature according to a predefined curve. Typically, the curve is set so that the supply air temperature is a few degrees lower than the extract air temperature at normal room temperature.

If the supply air temperature cannot reach the current setpoint, the fan speed is reduced toward step 1 until the setpoint is achieved.

ERSC-control is suitable for rooms with internal heat load, such as from machines, lighting, or people.

Example settings:

Extr. air setpoint 1	12 °C	Start curve for heating control (HOTC).
Sply air stpt dlta1	1 °C	Supply air delta at extract air temperature up to Extr. air setpoint 1 (HOTC).
Extr. air setpoint 2	22 °C	Stop curve for heating control/start curve cooling control (HOTC).
Sply air stpt dlta2	3 °C	Supply air delta at extract air temperature Extr. air setpoint 2 (HOTC).
Hysteresis	3 °C	Stop curve for cooling control (Extr. air setpoint 2+Hysteresis (HOTC)).
Sply air delta hys	7 °C	Stop curve for cooling control (Extr. air setpoint 2+Hysteresis (HOTC)).

